LOGGE T. Ca				BEGIN DATE 4-9-08	BOREHOLE LOCATION (Lat/Long or North/East and Datum) N2120582.62 / E5994169.98 (NAD83)											HOLE ID BTNB-R5A-PZ-S					
ORILLI						BOREHOLE LOCATION (Offset, Station, Line) Offset 154ft R Sta 85+13 NB Alignment												SURFACE ELEVATION			
Greg				and Testing, Inc.	•	Offset 154ft R Sta 85+13 NB Alignment DRILL RIG												79.370 ft (NAVD88) BOREHOLE DIAMETER			
Mud						Fraste		dril	l (trac	k)							4 in.				
			PE(S)	AND SIZE(S) (ID)	SPT HAMMER TYPE												HAMMER EFFICIENCY, ERI				
HQ Core SOREHOLE BACKFILL AND COMPLETION					N/A GROUNDWATER DURING DRILLING AFTER DRILLING (DATE												DEDTL	OE BOD	INC		
2" dia. Standpipe Piezo Screened 15.0 to 35.0 ft					READINGS AFTER DRILLING (DATE											TOTAL DEPTH OF BORING 76 ft					
ELEVATION (ft)							ation		<u> </u>				ght	Jt.	po	ے					
	DEPTH (#)		s				Sample Location Sample Number	(Blows per 6 In	(%) A		(%)	Dry Unit Weight (pcf)	Shear Strength (tsf)	Drilling Method	Dept					
EVA	Ţ	:	Material Graphics				le le	-	d sy	Recovery	(%) Q	sture	, Chit	arS	ing	ing					
E	<u> </u>	7	Mat Gra		Description		San	ī		Rec	RQD (Moi	Dry (pcf	She (tsf)	Drill	Cas		Remar	ks		
		Ħ	• •		CK (SANDSTONE), fine to n bedding, yellowish brown ar											0' to	o 1' straiç	ght drill to	set casir	ng	
	1		• •		ely weathered, moderately so		C1			95	0	1									
77.37	2		• •	•	eu. ·d, moderately weathered.																
	^	Ħ	• •	•	•																
	3	目	•	sheared/mylonized cl	ron-oxide staining on fractur lay filled fractures, slight iron	n-oxide															
75.37	4	Ħ	• •	staining throughout ro surfaces.	ock mass, randomly oriented	d fracture															
	5		• •																		
		目	• •																		
73.37	6	Ħ	• •																		
	7	Ħ	•	Iron-oxide staining re-	educed to fracture surfaces o	only		,		88	20										
71 37	0		• •	TOTI-ONING STAILING TE	added to nacture surfaces t	orny.		-		00	20										
71.37	8		• •																		
69.37	9	Ħ	• •	9.0', very intensely to	intensely fractured zone (0.	.5' thick).															
	10		• •	. , ,	2 2 7	· · · · · · · · · ·															
		Ħ	• •																		
	11	Ħ	• •	10.7', crushed/myloni	ized zone (0.3' thick).		Ц														
67.37	12	Ħ	• •	12 0' you think had	dad (alternating light are): ==	ad aray)				96	100										
	10		• •	slightly weathered, me	ded (alternating light gray an noderately to slightly fracture	d, slight		<u> </u>		90	39										
	13		• •	weathering on fractur hard.	re planes, intact rock mass is	s unstained,															
65.37	14	Ħ	• •	14.0', intensely fractu	ıred.																
	15		• •	•																	
		B	• •																		
63.37	16	Ħ	• •																		
	17	目	• •		ed/clay-filled zone (0.3' thick fractured, less iron-oxide sta		11 C4	\perp		80	0										
61.37	18		• •	indication of bedding,		an in ig, 110				00	١										
01.31	10		• •	19.5' intended from	ured, with mylonized/clay-fille	nd zonos st	LI C5			88	<u> </u>					Δ+ -	18 5' cuait	ch from	ace disch	naroo	
	19	Ħ	• •	19.0' and 20.0' up to	0.1' thick.	ou ZUIICS dl		<u> </u>		00	0					bit 1	to side di	scharge/	ace discr impregna	ated	
59.37	20	Ħ	• •																		
		B	•				Ц														
	21	Ħ	• •	21.0', slightly weather			Ce	3		95	30	1									
57.37	22	Ħ	• •	21.3' - 22.1', very inte 22.1', intensely to mo	•																
	23		• •	•	•		Щ														
		Ħ	• •	23.0', intensely to mo fractured zone from 2	oderately fractured with very 24.1' to 24.9'.	intensely	C7	7		82	26										
55.37	24	Ħ	•																		
	- 25	且	• •	(continued))		Ш														
					rtment of Transportat	tion			ORT T		00-								LE ID	- ^ -	
					ntment of Transportation of Engineering Se			BO DIS	RING r.	COU		≀ D	ROU	TE	PC	STMI	LE	B EA	TNB-R	A-F	
Geotechnical Services						N VICES		4		S.F			101			3/9.4			3701		
				Geole	Commodi Oct VICES				JECT					t Proje	ect						
								BRI	DGE N	JMBE		PRE	PARE	D BY	. J.		D	ATE	SHEE		
								34-	<u>0161</u>	R		T.	Carr	oll			1	1-3-08	1 0	ot 3	

								T	Т	1						П
ELEVATION (ft)				Sample Location	Der	드	oot	(5)		Moisture Content (%) Dry Unit Weight	<u>.</u>	gth	g	£		
OLL	Œ(£	ر س		Log 1		er 6	er Fo	у (%		₩.		trenç	Meth	Dept		
EVA	DEPTH (ft)	Material Graphics		nple	Sample Number	Blows per 6 In	Blows per Foot	Recovery (%)	RQD (%)	isture Itent Unii	٥	Shear Strength (tsf)	Drilling Method	Casing Depth		
<u> </u>	_25 _		Description	Sa	S.	8 B	Blc	Re	8	ಕ್ಷಣ್ಣ	<u></u>	Sh (tsf	Ω	S S	Remarks	
50.07	20		SEDIMENTARY ROCK (SANDSTONE), fine to medium grained, no apparent bedding, yellowish brown and gray,													
53.37	26		intensely to moderately weathered, moderately soft, intensely to moderately fractured.													
	27	• •	25.0', occasional thin white vein infilling (quartz?).	Щ												
51.37	28		28.0', very intensely to intensely fractured, slight clay infilling		28			92								
	29		of fractures.	\mathbf{II}^{c}	0			92	0							
	29	• •														
49.37	30			Щ												
	31													Straight PS-loggi	drill at 30.5' to	70.6' for
47.37	32															
		• •														
	33															
45.37	34															70.6' for
	35															
43.37	36	• •														
40.07																
	37															
41.37	38															
	39	• •														
39.37	40															
39.57	70	• •														
	41															
37.37	42	• •														
30/8/1	43															
25.27	44	• •														
5 35.37 ≤	44	::														
Ç Ç	45	• •														
33.37	46															
۲ ۲	47															
3		• •														
31.37	48															
70	49															
29.37	50															
8 9.5 4.0	51	• •														
2001 RAINS FORMAL DOTTED AND LIBRARY CALLINANS FORMAL 151B 11/2/08 33.37																
27.37	52															
OPIC C	53															
25.37	54	• •														
N N N N N N N N N N N N N N N N N N N	55															
	JJ		(continued)													
<u> </u>			Department of Transportation		RI	EPOR'	t tit NG I	LE REC	OF	RD					HOLE BTN	id IB-R5A-PZ:
	Division of Engineering Services							OUN S.F.		R	ROUT 101	Έ	PC	STMILE 3/9.4	EA 163	
		7	Geotechnical Services		PF	ROJEC	T OI	R BR	IDGE	NAME	=	<u> </u>		<i>5,</i> 5. T	100	. J I
								Doyle Drive Replacement Project BRIDGE NUMBER PREPARED BY DATE SHEET							SHEET	
<u> </u>							RIDGE NUMBER PREPARED B 4-0161R T. Carroll								DATE 11-3-08	SHEET 2 of 3

ELEVATION (ft)	поертн (ft)	Material Graphics	Description	Sample Location	Sample Number	Blows per 6 In	Blows per Foot	Recovery (%)	RQD (%)	Moisture Content (%)	Dry Unit Weight (pcf)	Shear Strength (tsf)	Drilling Method	O assing Depth Cash
23.37	56		SEDIMENTARY ROCK (SANDSTONE), fine to medium grained, no apparent bedding, yellowish brown and gray, intensely to moderately weathered, moderately soft, intensely to moderately fractured.											
21.37	58													
19.37	60													
17.37	62													
15.37	64													
13.37	66													
11.37	68 69													
9.37	70 71													
7.37	72 73													
5.37	74 75													
3.37	76 77	• •	Borehole terminated at a depth of 76 feet on 4/10/2008. See Boring Record Legend for soil classification chart and											
1.37	78 -	=	key to test data and sampler type.											
-0.63	80	7												
-2.63	82	3												
-4.63	84 85													
			Department of Transportation Division of Engineering Services Geotechnical Services		E	ROJEC	T OF Driv	RECOUN S.F. R BR /e F	ITY IDGE Repl	E NAI ace	men	t Proje	8.	DATE SHEET 11-3-08 3 of 3